
SPC Web Gateway Installation Guide

Revision 1.3



History Record

Revision	Date	Author	Comment
1.0	10-Apr-2014	Göran Lundquist, Lundix IT	First edition
1.1	18-May-2014	Göran Lundquist, Lundix IT	Added support for: <ul style="list-style-type: none"> • Encrypted communication • User/password control
1.2	24-May-2014	Göran Lundquist, Lundix IT	Added missed dependency to package libssl-dev
1.3	November 2020	Lundix IT	<ul style="list-style-type: none"> • SPC screenshots updated to SPC v 3.11 • New section "Bindings" • Description of local API port • Minor corrections

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1 Introduction

1.1 Purpose of the document

This document will guide you through the process of installing SPC Web Gateway on a Linux system.

1.2 Document References

Id	Description	Revision
[LUNDIX_SPC_WEB_GW_SPEC]	Lundix SPC Web Gateway Specification	>=1.0
[SPC_INST_CONF]	Siemens SPC42xx/43xx/52xx/53xx/63xx, Installation & Configuration Manual	>=3.2

1.3 Terminology and Abbreviations

Term	Description
JSON	JavaScript Object Notation
SIA	Security Industry Association
SPC panel	Siemens SPC intrusion panel
URL	Uniform Resource Locator
WebSocket	Two-way TCP protocol RFC 6455
XML	Extensible Markup Language

2 Installation on Raspberry Pi or Ubuntu

2.1 Installation Prerequisites

- Raspberry Pi with standard Raspbian (release>=Wheezy) or Linux system with Ubuntu x86_64 (release >= 12.04)
- Package **openssl**. Install it with:

```
sudo apt-get install openssl
```

- On Raspbian versions older than Buster, the package **libssl-dev** is also needed. Install it with:

```
sudo apt-get install libssl-dev
```

- Vanderbilt (Siemens) SPC panel with firmware > 3.2
- Network connection between the Linux system and the SPC

2.2 Installation Steps

1. Read carefully **End-User License Agreement for SPC Web Gateway (EULA)** in chapter 6 in this document. If you do not agree to the terms of the EULA, do not install or use the SPC Web Gateway.
2. Copy the SPC Web Gateway package file, **spc-web-gateway-X-X.X.tar.gz**, to a directory of your choice on the Linux system.
3. Uncompress and unpack the package file:

```
tar xzvf spc-web-gateway-X-X.X.tar.gz
```

4. Run the install script:

```
cd ./spc-web-gateway-X-X.X  
sudo ./install.sh
```

The script asks you some questions (You have to accept EULA and enter which user should run the gateway) and will then install the product in `/opt/spc-web-gateway`.

Note

User root is, of security reasons, not allowed to run `spc-web-gateway` in normal mode. If you would like to change the user after you have run the install script you have to change the variable `RUN_AS` in the file `/etc/init.d/spc-web-gateway`.

5. Open the file, **`/opt/spc-web-gateway/config.xml`**, in an editor and check and adjust the SPC Web Gateway settings. Normally, you don't need to change the default settings.

```
<!--
CONFIGURATION OPTIONS

enable_get_auth
  Set this flag to yes to enable user and password control for GET
  requests (queries).
  Run spc-web-gateway -A to set user and password.
  Valid values: yes or no. Default: yes

enable_put_auth
  Set this flag to yes to enable user and password control for PUT
  requests (commands).
  Run spc-web-gateway -A to set user and password.
  Valid values: yes or no. Default: yes

enable_ws_auth
  Set this flag to yes to enable user and password control for Websocket
  access.
  Run spc-web-gateway -A to set user and password.
  Valid values: yes or no. Default: yes

enable_edp_encryption
  Set this flag to yes to enable encrypted communication to the
  SPC Panel. The EDP configuration in the SPC Panel must match this
  setting. Run spc-web-gateway -A to set encryption key.
  Valid values: yes or no. Default: yes

enable_ssl_encryption
  Set this flag to yes to enable SSL encrypted communication to the
  embedded web server. With SSL enabled, web pages can only be accessed
  by using the https prefix.
  Valid values: yes or no. Default: yes

access_control_list
  Access control list (ACL) for web client connections. ACL is a
  comma separated list of IP subnets, each subnet is preceded by
  '-' or '+' sign. Plus means allow, minus means deny. If subnet mask
  is omitted, like "-1.2.3.4", then it means single IP address.
  Mask may vary from 0 to 32 inclusive. On each request, full list is
  traversed, and last match wins. Default: if not set, ALLOW ALL.

  Example: -0.0.0.0/0,+192.168.0.0/24
  Deny connections from everywhere, allow only all IP addresses from
  subnet 192.168.0.0 mask 255.255.255.0 to connect.

  Example: -0.0.0.0/0,+192.168.4.0/24
  Deny connections from everywhere, allow only all IP addresses from
  subnet 192.168.4.0 mask 255.255.255.0 to connect.

http_port
  Port to listen on for web client connections. Default: 8088

tcp_port
  TCP/UDP port to listen on for SPC panel connections.
  Must match value in SPC EDP communication settings.

local_port
  Port to listen on for local web clients connected to 127.0.0.1.
  Note this connection is neither encrypted nor user/password controlled.
```

If set to 0, connections on 127.0.0.1 are disabled. Default: 8089

`spc_id`

SPC EDP Panel ID. A number which will be used by the SPC Web Gateway to identify the SPC panel. Must match value in SPC EDP communications settings.

`gateway_id`

SPC Gateway ID. A number which will be used by the SPC panel to identify the SPC Web Gateway as a EDP receiver. Must match value in SPC EDP Receiver settings.

`spc_time_diff`

How many hours the normal time differs between the SPC panel and the SPC Web Gateway system. Set to 0 if both systems have same time setting.

Example: If SPC Panel has local Swedish time (CET) and the SPC Web Gateway system has Greenwich Mean Time (GMT) the value should be +1.

Valid values: -24 to +24. Default: 0

`spc_dst`

Set this flag to yes if Automatic Daylight Saving Time is enabled in the SPC panel.

Valid values: yes or no. Default yes.

-->

```
<config>
  <enable_get_auth>yes</enable_get_auth>
  <enable_put_auth>yes</enable_put_auth>
  <enable_ws_auth>yes</enable_ws_auth>
  <enable_edp_encryption>yes</enable_edp_encryption>
  <enable_ssl_encryption>yes</enable_ssl_encryption>
  <access_control_list>-0.0.0.0/0,+192.168.0.0/24</access_control_list>
  <http_port>8088</http_port>
  <local_port>8089</local_port>
  <tcp_port>16000</tcp_port>
  <spc_id>1000</spc_id>
  <gateway_id>1100</gateway_id>
  <spc_time_diff>0</spc_time_diff>
  <spc_dst>yes</spc_dst>
</config>
```

Note

To achieve a high level of security it is highly recommended to enable all security functions by setting `enable_get_auth`, `enable_put_auth`, `enable_ws_auth`, `enable_edp_cryption` and `enable_ssl_encryption` to **yes**. This is the default setting. You should also set the `access_control_list` as restrictive as possible, to prevent access from unauthorized IP

- The default EDP encryption key is **00112233445566778899AABBCCDDEEFF**. The default user/password for GET requests (queries) are `get_user/get_pwd`, for PUT requests (commands) `put_user/put_pwd` and for Websocket access `ws_user/ws_pwd`.

Define your own EDP encryption key, usernames and passwords by running the application with option -A:

```
sudo /opt/spc-web-gateway/spc-web-gateway -A

-- Define user for GET requests -
Username[get_user]: <my_get_user>
New password: <my_get_password>
Re-type password: <my_get_password>

-- Define user for PUT requests -
Username[put_user]: <my_put_user>
New password: <my_put_password>
Re-type password: <my_put_password>

-- Define user for Websocket access -
Username[ws_user]: <my_ws_user>
New password: <my_ws_password>
Re-type password: <my_ws_password>

-- Enter EDP encryption -
EDP encryption key: <my_32_hex_digits_key>
```

Note

- The EDP encryption key must match the key defined in the SPC panel.
- User root is required to run spc-web-gateway with option -A.
- You can change these settings at any time, but remember to stop the running instance of spc-web-gateway first.
- If you would like to keep an old username and password just enter RETURN on both username and password.
- It is not possible to delete a user or password, just modify them. (But you can of course still disable the user/password control in the config file)

7. You can now start the SPC Web Gateway:

```
sudo /etc/init.d/spc-web-gateway start
```


3 SPC panel settings

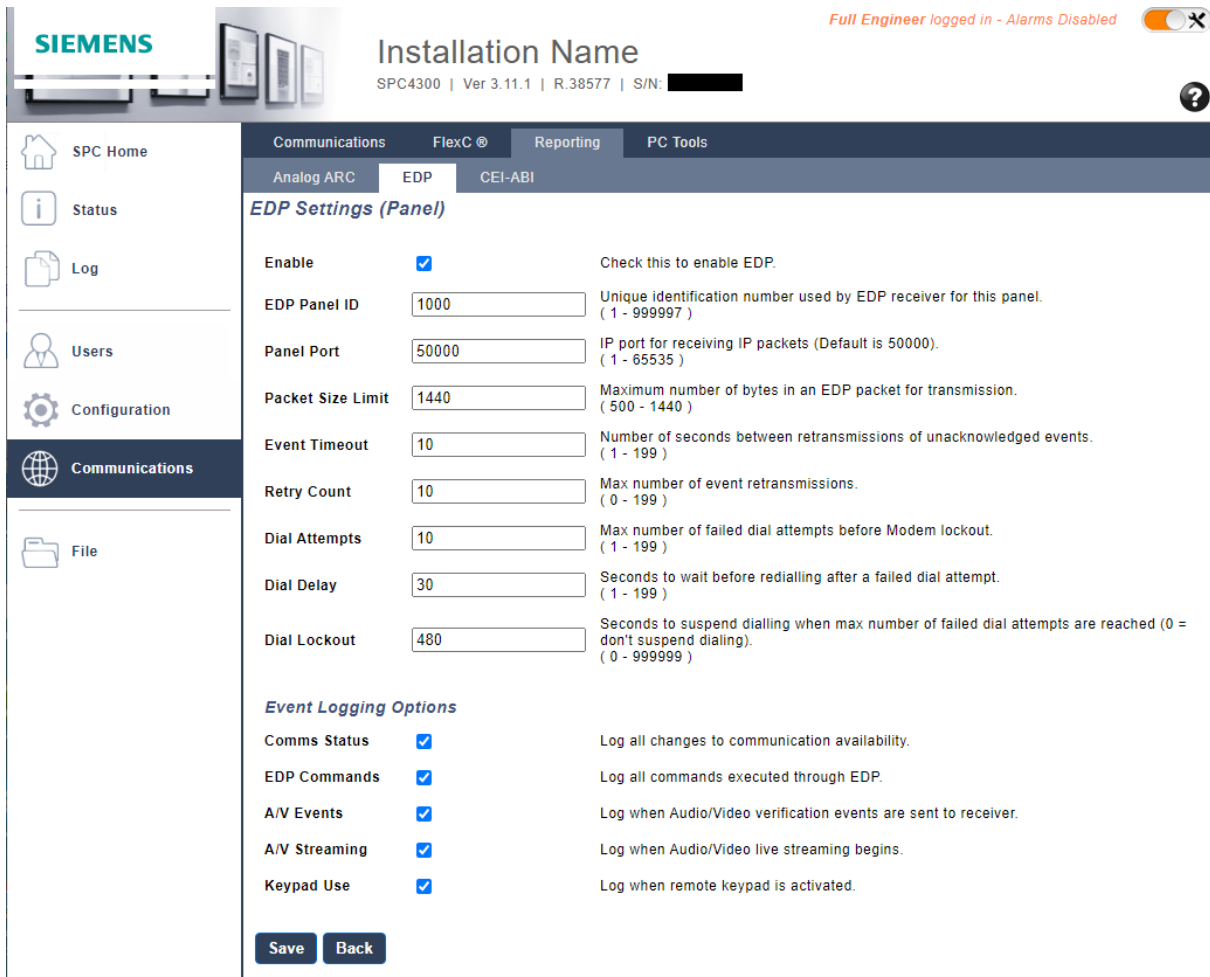
Use SPC Pro or SPC Web interface to configure the connection to the SPC Web Gateway (EDP receiver) as explained below. To be able to configure the EDP communication you need to login as **Full Engineer**.

Note

- To be able to configure the EDP communication you need to login as **Full Engineer**.
- As long you are in Full Engineer mode **no events will be sent** from the SPC-system to SPC Web Gateway.

3.1 EDP settings

Adjust the common EDP Settings in accordance to following figure:



Note

- EDP Panel ID must match spc_id in SPC Web Gateway configuration.

3.2 EDP receiver settings

Add and edit a new EDP receiver according to following figure:

The screenshot shows the 'Edit Receiver' configuration page in the Siemens SPC Web Gateway interface. The page is divided into several sections: Description, Security, Network, Dial-up, and Events. Each section contains various settings with checkboxes, dropdown menus, and text input fields.

Section	Setting	Value	Description
Description	Description	SPC Web Gateway	Description of receiver.
	Receiver Id	1100	Unique identification number of EDP receiver used by this panel. (1 - 999997)
	Protocol version	Version 2	Select version of EDP protocol to use with this receiver
Security	Commands Enable	<input checked="" type="checkbox"/>	Check if incoming commands are allowed from this receiver.
	Change user PINs	<input type="checkbox"/>	Check if changing user PINs is allowed from this EDP receiver.
	Virtual Keypad	<input type="checkbox"/>	Check to allow virtual keypad access from this EDP receiver.
	Live streaming	Always available	Select Live Streaming privacy options
	Encryption Enabled	<input checked="" type="checkbox"/>	Check if data to and from this receiver is encrypted.
Encryption Key	*****	32 Hexadecimal Digits	
Network	Network Enable	<input checked="" type="checkbox"/>	Check if events can be reported through Network
	Network Protocol	TCP/IP	Select transport layer protocol over Ethernet.
	Receiver IP Address	192.168.0.20	IP address of receiver.
	Receiver IP Port	16000	IP port of receiver.
	Always Connected	<input checked="" type="checkbox"/>	Check if panel should keep a permanent connection to the receiver. If not checked then panel will only connect to the receiver after an alarm event.
	Panel Master	<input checked="" type="checkbox"/>	Check this to make the panel master of polling messages.
	Polling Interval	10	Seconds between polls
	Generate a Network Fault	<input type="checkbox"/>	A polling failure will generate a network fault
Dial-up	Dial-up Enable	<input type="checkbox"/>	Check if events can be reported through dial-up
Events	Primary Receiver	<input checked="" type="checkbox"/>	Check if primary, clear for backup
	Re-queue Events	<input type="checkbox"/>	Check if events that fail to report are to be requeued for transmission.
	Verification	<input type="checkbox"/>	Check if Audio/Video verification should be sent to this receiver.
	Event Filter	Filter	Configure which events are reported to this receiver

At the bottom of the configuration page, there are 'Save' and 'Back' buttons.

Note

- Receiver ID must match gateway_id in SPC Web Gateway configuration.
- Receiver IP Address must match SPC Web Gateway IP Address, i.e Raspberry Pi IP Address.
- Receiver IP Port must match tcp_port in SPC Web Gateway configuration.
- Encryption Key must match the key set with spc-web-gateway -A

If you would like to use SPC Web Gateway WebSocket you should also configure which (SIA) events are reported, in the Event Filter section, see following figure:

The screenshot shows the 'Event Filter' configuration page in the SPC Web Gateway interface. The page is titled 'Installation Name' and includes version information: SPC4300 | Ver 3.11.1 | R.38577 | S/N: [REDACTED]. The user is logged in as 'Full Engineer' with 'Alarms Disabled'.

The 'Event Filter' section is divided into several categories, each with a list of events and checkboxes for reporting:

Category	Event	Reporting Status
Alarms	Alarm activation	<input checked="" type="checkbox"/>
	Reported alarms being restored	<input checked="" type="checkbox"/>
Alarm Restores	Reported alarms being restored	<input checked="" type="checkbox"/>
	Alarms confirmed by multiple zones	<input checked="" type="checkbox"/>
Confirmed alarms	Alarms confirmed by multiple zones	<input checked="" type="checkbox"/>
	Report Alarm Abort event if valid PIN is entered on keypad after alarm report	<input checked="" type="checkbox"/>
Alarm Abort	Report Alarm Abort event if valid PIN is entered on keypad after alarm report	<input checked="" type="checkbox"/>
	Fault or Tamper activations	<input checked="" type="checkbox"/>
Faults	Fault or Tamper activations	<input checked="" type="checkbox"/>
	Fault or Tamper restores	<input checked="" type="checkbox"/>
Fault restore	Fault or Tamper restores	<input checked="" type="checkbox"/>
	Report all state changes of inputs	<input checked="" type="checkbox"/>
Zone state	Report all state changes of inputs	<input checked="" type="checkbox"/>
	Setting and Unsetting	<input checked="" type="checkbox"/>
Setting	Setting and Unsetting	<input checked="" type="checkbox"/>
	Report if Setting/Unsetting is not according to schedule	<input checked="" type="checkbox"/>
Early / Late	Report if Setting/Unsetting is not according to schedule	<input checked="" type="checkbox"/>
	Inhibit and Isolate	<input checked="" type="checkbox"/>
Inhibits	Inhibit and Isolate	<input checked="" type="checkbox"/>
	Access control door events	<input checked="" type="checkbox"/>
Door events	Access control door events	<input checked="" type="checkbox"/>
	All other types of events	<input checked="" type="checkbox"/>
Other	All other types of events	<input checked="" type="checkbox"/>
	Non Standard SIA codes	<input checked="" type="checkbox"/>
Other (Non Standard)	Non Standard SIA codes	<input checked="" type="checkbox"/>
	Report IP Network Polling Up/Down events	<input checked="" type="checkbox"/>
Network	Report IP Network Polling Up/Down events	<input checked="" type="checkbox"/>
	If checked Wireless Lost event will be sent over CID/SIA and FlexC	<input checked="" type="checkbox"/>
Wireless Lost Event	If checked Wireless Lost event will be sent over CID/SIA and FlexC	<input checked="" type="checkbox"/>
	Areas	<input type="checkbox"/> 1: Område 1

Buttons: Save, Back

4 Testing the Installation

After you have finished installation on the Raspberry Pi and the configuration of the SPC panel you can test that everything works by using the methods described below.

4.1 Using the embedded Testpanel

In the embedded test panel you can test most of the commands and queries in the protocol by selecting functions in a menu. The corresponding query or command and the reply are displayed in plain text.

In a web browser go to https://IP_OF_RASPBERRY:SPC_WEB_GATEWAY_TCP_PORT, e.g. <https://192.168.0.20:8088>. Use http instead of https if you have disabled SSL-encryption.

If you would like to display SIA events from the SPC panel you have to push on Connect button in the Websocket section.

If you have connected an IP camera to the SPC panel it is also possible to view images from the camera by selecting **Start streaming liveimages** and **Get saved image sequence**.

Testpanel - Lundix IT SPC Web Gateway

Panel	Status	Logs	Commands
Basic Panel Info			
System Info			
Power Supply Unit			
System Alerts			
Modem Info			
Ethernet Info			
Users Info			

Request/Command to SPC

spc/system

Reply from SPC (JSON)

```
{
  "status": "success",
  "data": {
    "system": {
      "time": "1400447001",
      "engmode": "0",
      "rf_type": "2",
      "rf_version": "10"
    }
  }
}
```

Image

Start streaming liveimages (VZONE 1) Get saved image sequence (VZONE 1)

Websocket

Encrypted communication:

Username: ws_user

Password:

Disconnect

```
{
  "status": "success",
  "data": {
    "sia": {
      "device_id": "1000",
      "timestamp": "21530518052014",
      "sia_code": "ZC",
      "sia_address": "11",
      "description": "V"
    }
  }
}
```

4.2 Using a Web Browser

You can also test the SPC Web Gateway by simple entering the query as a URL path in a web browser. This way you can test all queries based on GET methods, but not PUT methods. The reply will be displayed in plain text.

Example: Get the status of zone 1:

Go to URL <https://192.168.0.20:8088/spc/zone/1> and enter GET user/password in the authentication dialog window that will pop up.

If you have disabled SSL-encryption use http instead of https and if you have disabled GET user/password control no authentication window will appear.

4.3 Using the command tool curl

To test the SPC Web Gateway protocol from the command line or from a script it is very convenient to use the standard command tool **curl**.

On the Raspberry Pi you can install it with:

```
sudo apt-get install curl
```

Curl has support for both GET and PUT methods.

Example GET method: Get the status of zone 1:

```
curl -X GET https://192.168.0.20:8088/spc/zone/1 -u get_user:get_pwd \
-k --digest

{"status":"success","data":{"zone":[{"id":"1","type":"0","zone_name":
"Entrance","area":"1","area_name":"Area 1","input":"0","status":"0"}]}}
```

The same query if you have disabled SSL-encryption and GET user/password control:

```
curl -X GET http://192.168.0.20:8088/spc/zone/1

{"status":"success","data":{"zone":[{"id":"1","type":"0","zone_name":
"Entrance","area":"1","area_name":"Area 1","input":"0","status":"0"}]}}
```

The same query if you run curl on the same computer as spc-web-gateway (the settings of the enable_ssl_encryption and enable_get_auth are ignored):

```
curl -X GET 127.0.0.1:8089/spc/zone/1

{"status":"success","data":{"zone":[{"id":"1","type":"0","zone_name":
"Entrance","area":"1","area_name":"Area 1","input":"0","status":"0"}]}}
```

Example PUT method: Isolate zone 1:

```
curl -X PUT https://192.168.0.20:8088/spc/zone/1/isolate \  
-u put_user:put_pwd -k --digest \  
{ "status": "success", "data": "null" }
```

The same command if you have disabled SSL-encryption and PUT user/password control:

```
curl -X PUT http://192.168.0.20:8088/spc/zone/1/isolate \  
{ "status": "success", "data": "null" }
```

The same command if you run curl on the same computer as spc-web-gateway (the settings of the `enable_ssl_encryption` and `enable_put_auth` are ignored):

```
curl -X PUT 127.0.0.1:8089/spc/zone/1/isolate \  
{ "status": "success", "data": "null" }
```

4.4 Print debug information

To print debug information you can start the SPC Web Gateway with option `-d` or `--debug`:

```
sudo /etc/init.d/spc-web-gateway stop  
cd /opt/spc-web-gateway  
./spc-web-gateway -d
```

5 Bindings

5.1 Home Assistant

Home Assistant Community has added support for integration of SPC with Home Assistant via the SPC Web Gateway. Please see: www.home-assistant.io/integrations/spc/

Please Note! All questions and issues regarding Home Assistant and the SPC binding, you have to take with the Home Assistant Community.

Also note, SPC Web Gateway can't be installed in HASSIO and the current Home Assistant binding is not supporting SPC Web Gateway ssl encryption and user/password control.

5.1.1 Home Assistant Configuration

If you run SPC Web Gateway on **same computer** as Home Assistant you could set the Url's in HA configuration to:

```
spc:  
  api_url: http://127.0.0.1:8089  
  ws_url: ws://127.0.0.1:8089/ws/spc
```

and you could then keep the encryption and authentication default settings in config.xml.

If you run SPC Web Gateway on **another computer** in the network than Home Assistant you should use:

```
spc:  
  api_url:http://<SPC_GATEWAY_IP>:8088  
  ws_url: ws://<SPC_GATEWAY_IP>:8088/ws/spc
```

and set `enable_get_auth`, `enable_put_auth`, `enable_ws_auth` and `enable_ssl_encryption` to no in config.xml.

5.2 NodeJS Examples

For some examples how to write your own bindings in Javascript please see:
<https://github.com/Goran58?tab=repositories>

6 License Agreements

6.1 End-User License Agreement for SPC Web Gateway (EULA)

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6.2 Open Source Libraries

The following open source libraries, licensed under MIT license, are used and included within the SPC Web Gateway:

- **CivetWeb** - Copyright (c) 2004-2013 Sergey Lyubka
- **ezXML** - Copyright (c) 2004-2006 Aaron Voisine aaron@voisine.org

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